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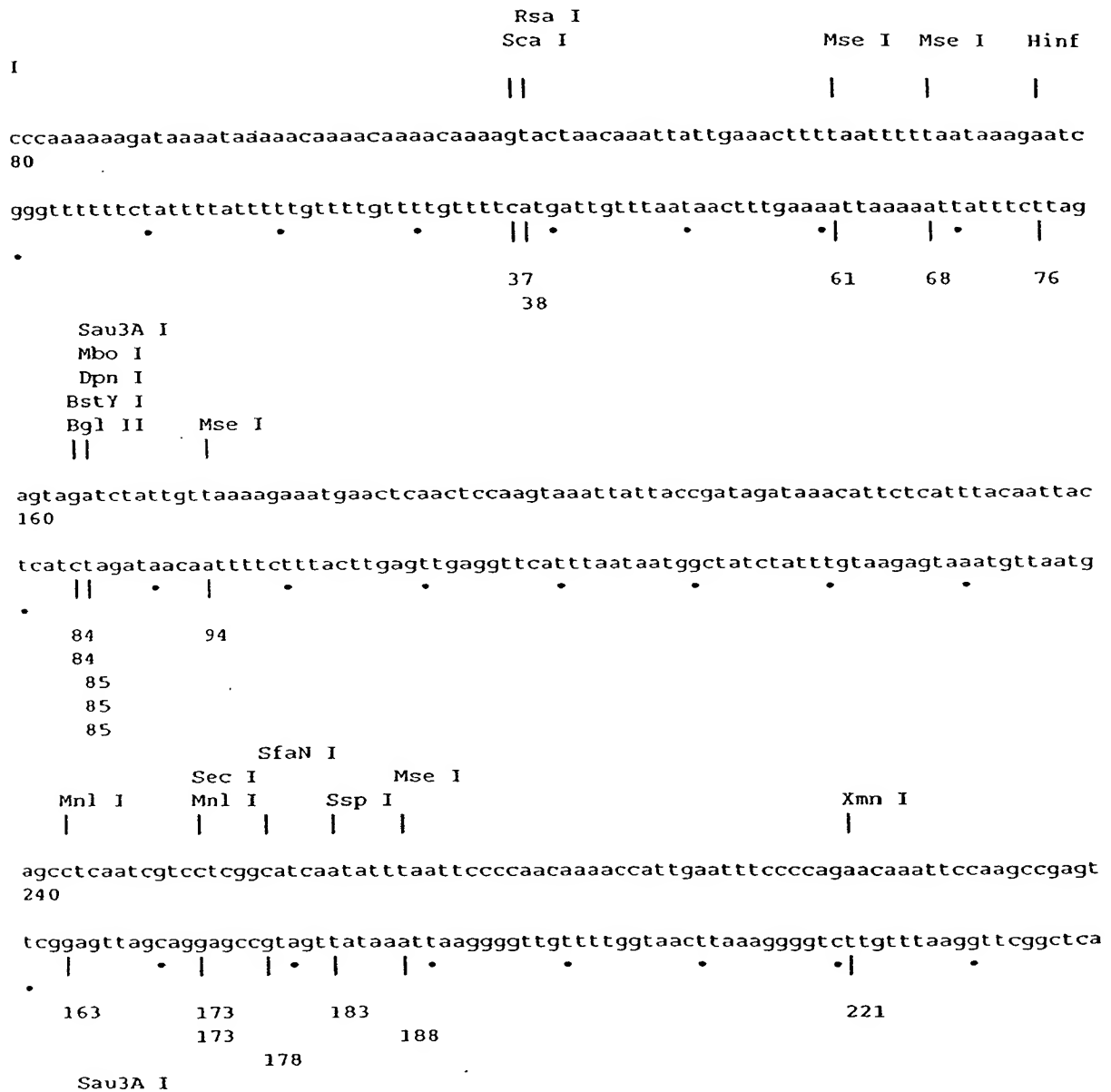


FIG. 1-1

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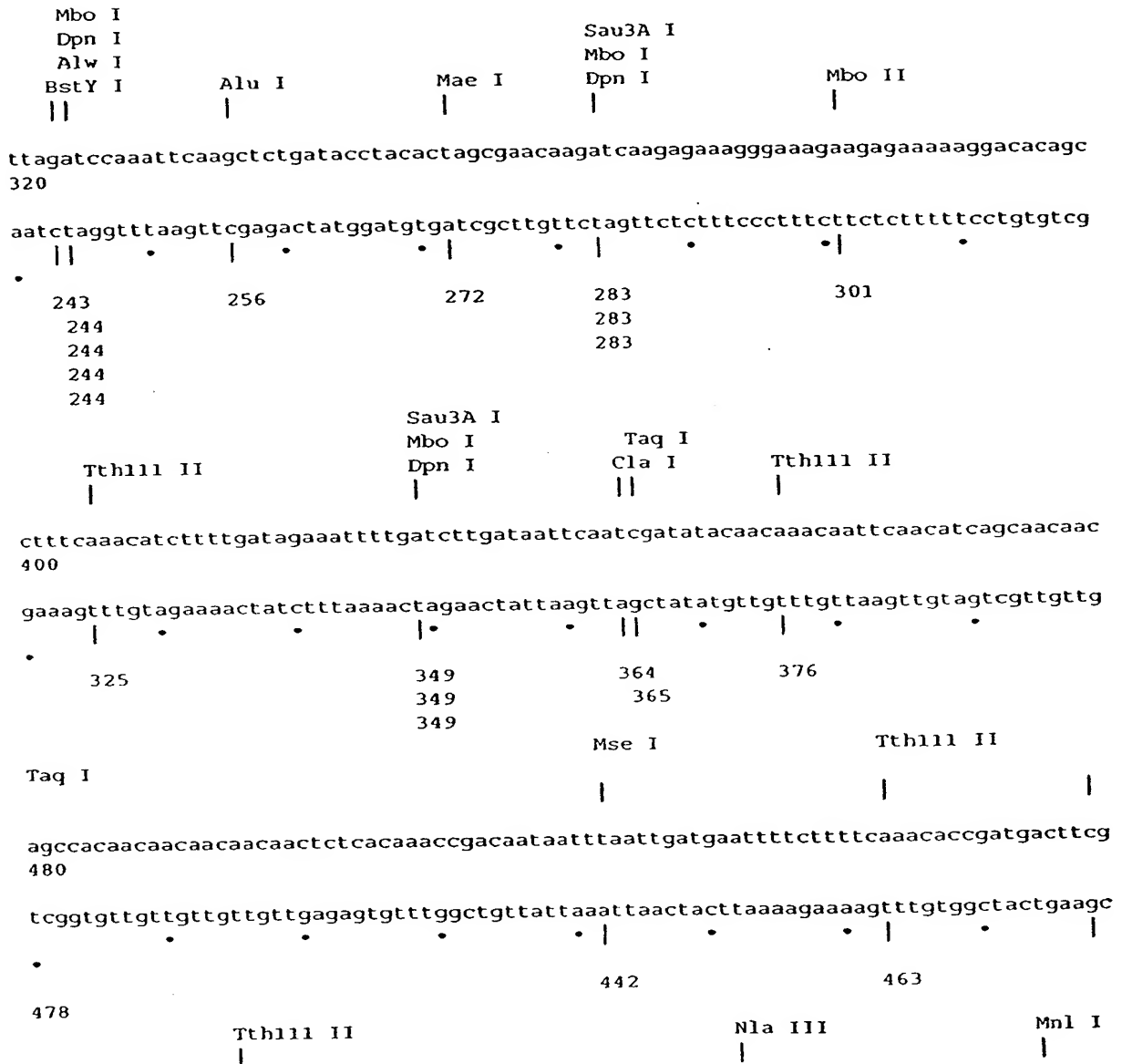


FIG. 1-2



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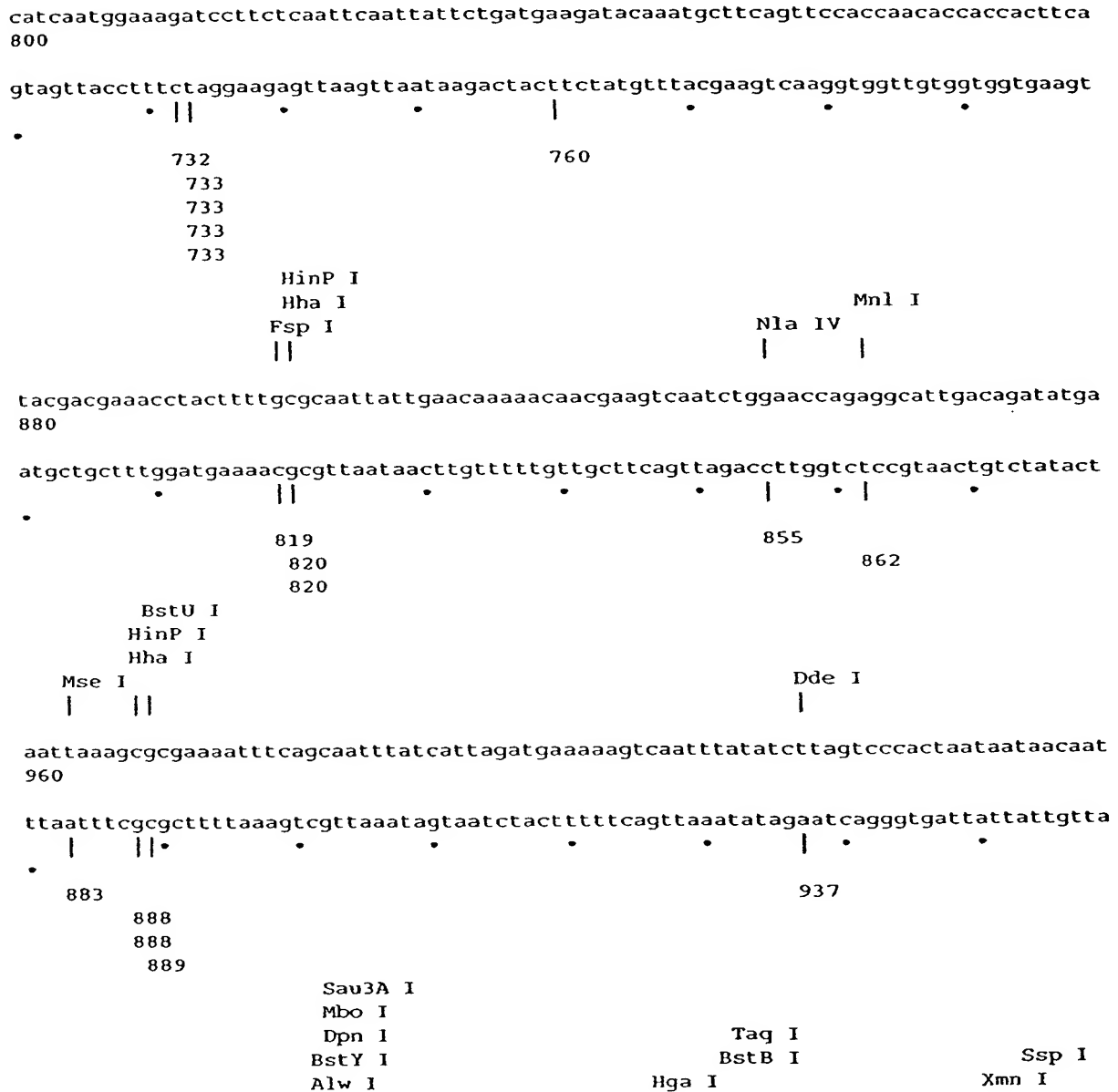


FIG. 1-4

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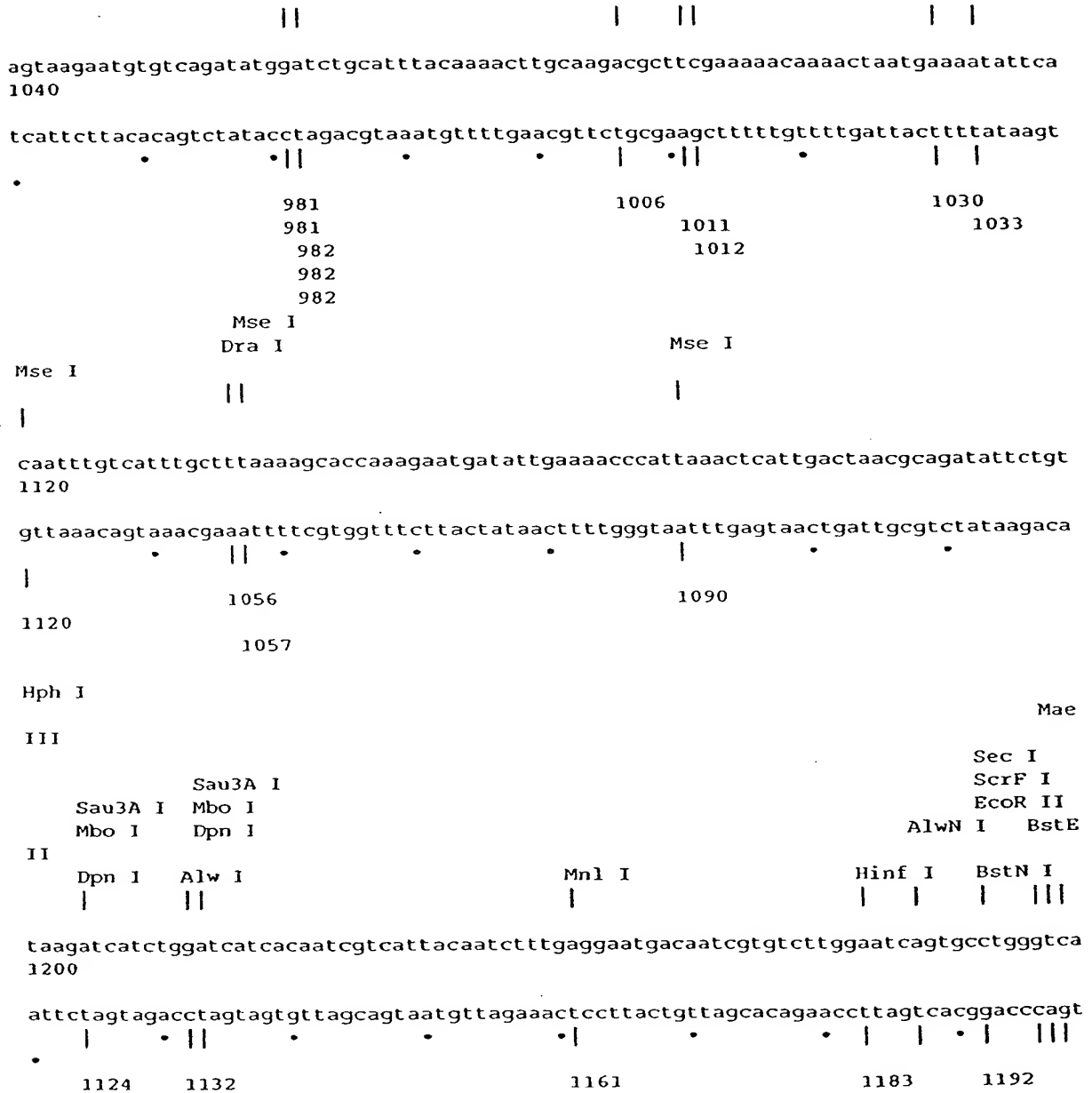
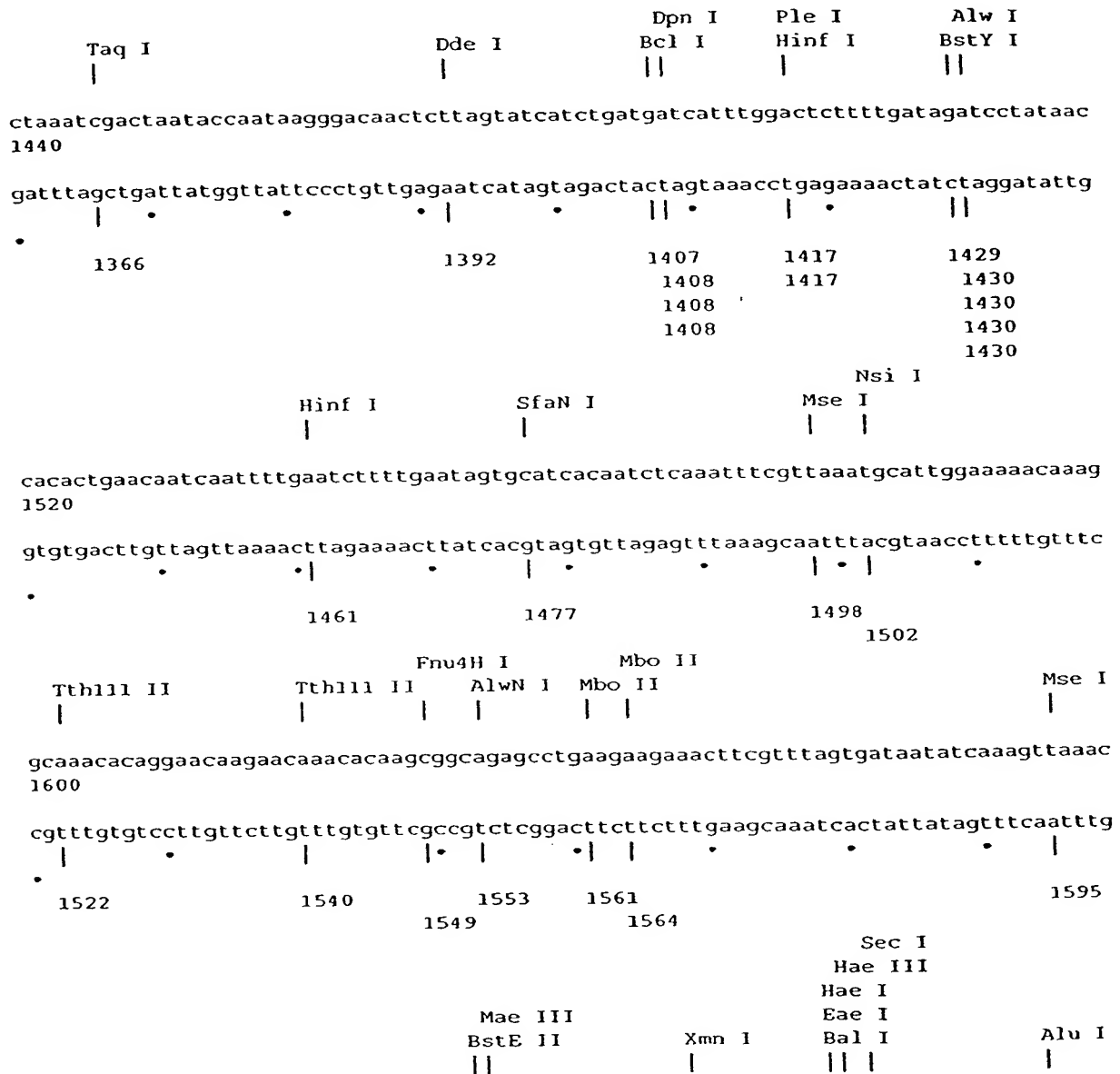


FIG. 1-5

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FIG. 1-6



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aagagccaaagagcaatttggagtttgtcaaggttaccatcaagaaagaaccagttctggccacggaaataaaagctcca  
 1680

ttctcggtttctcgtaaacctcaaacagttccaatggtagttctttcttggtcaagaccgggtgcctttattttcgaggt

. . . || . | . || . |  
 .  
 1632 1648 1658 1674  
 1633 1658 1658 1659 1661  
 Ssp I  
 Taq I Mse I Mbo II NspB II Fok I  
 | | | | |  
 | | | | |

aaaagagaattttcaagtcgaatattaagaataaaaaatgaagatgaaattgccgaaccagctgatattcatcctaaaaa  
 1760

ttttctttaaagttcagcttataattcttattttttacttctactttaacggcttggtcgactataagtaggattttt

. . | . | . | . || |  
 .  
 1698 1705 1720 1739 1750  
 1701 1739 1740  
 Mbo II  
 Nla III Nsi I Hinf I  
 Tth111 II Tag I SfaN I Mbo II Mse I Mnl I  
 | | | | |  
 | | | | |

agaaaatgaagcaaacagtcatgtcgaagatactgatgcattggtgaagaaagcacttaatgatgatgaggaatctgaca  
 1840

tcttttacttcggttggtcagtcacagcttctatgactacgtaacaacttctttcgtgaattactactactccttagactgt

. | | | . || . | . | . | .  
 .  
 1772 1784 1795 1806 1817 1828  
 1780 1796 1831  
 1786  
 Mbo II  
 Bbv II  
 |

cgacccaaaactcaacgaaaatgtcaattcgttttcatattgatagtgattggaaattggaagacagtaatgatggcgat  
 1920

FIG. 1-8



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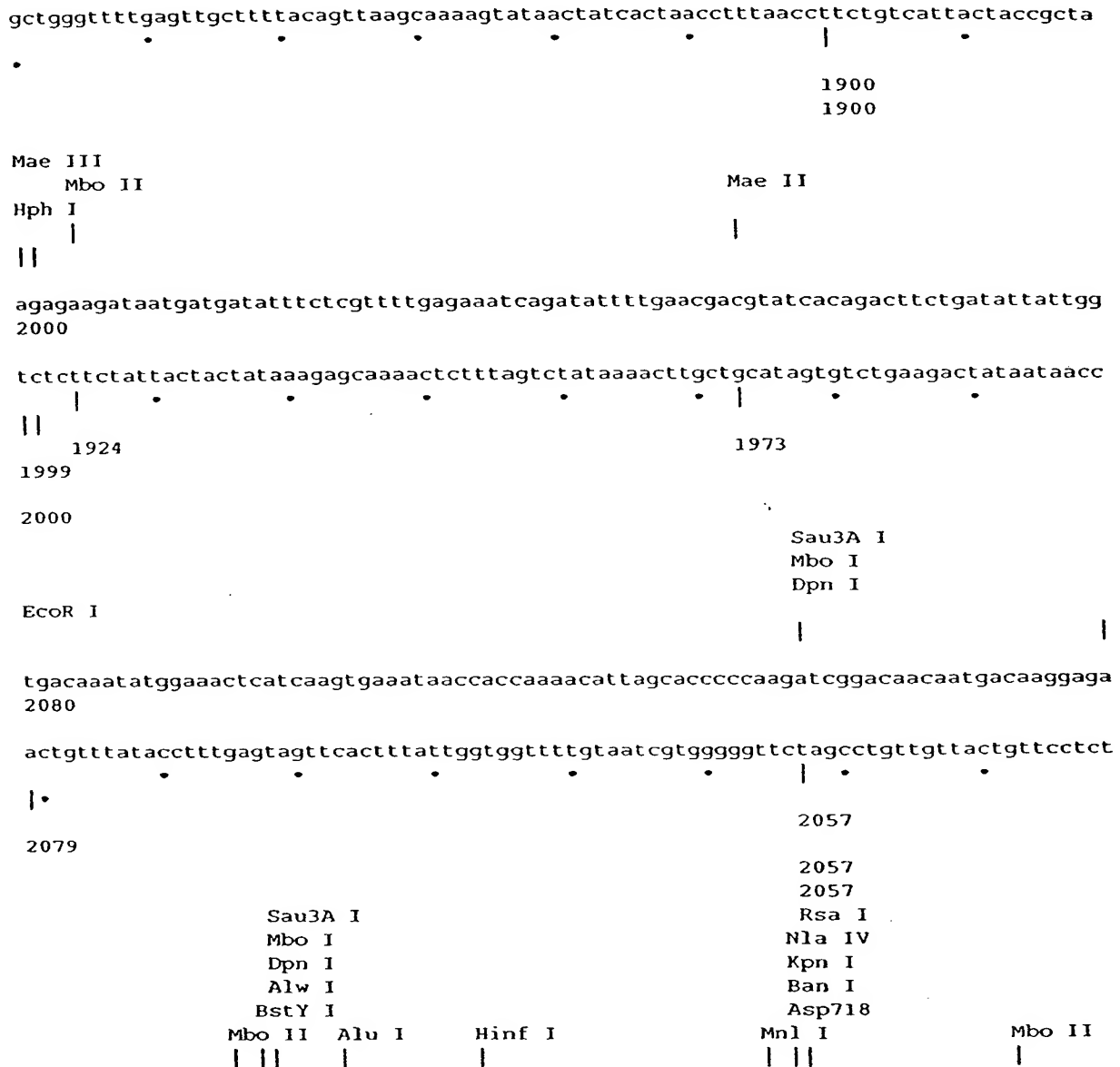


FIG. 1-9

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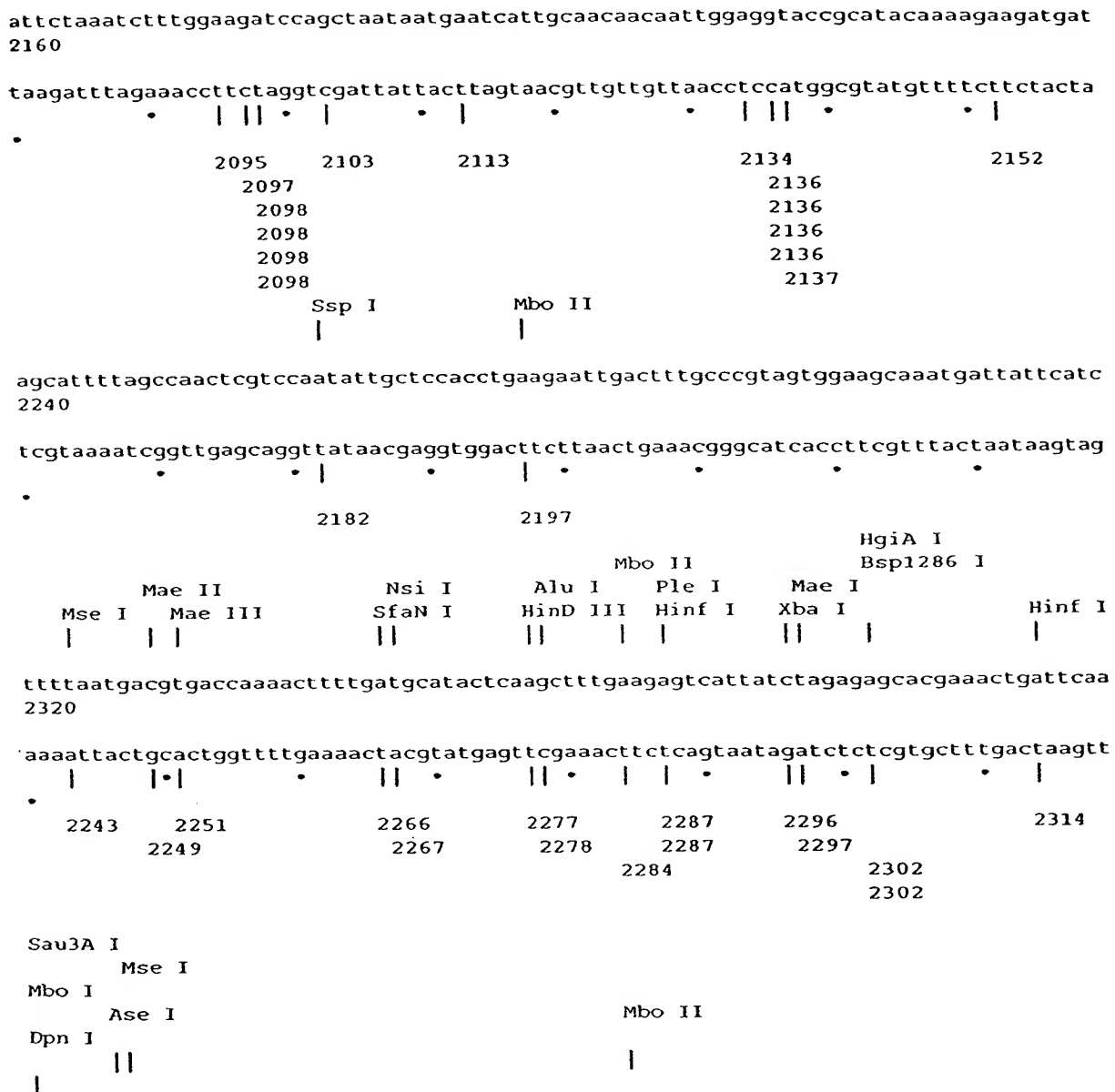


FIG. 1-10

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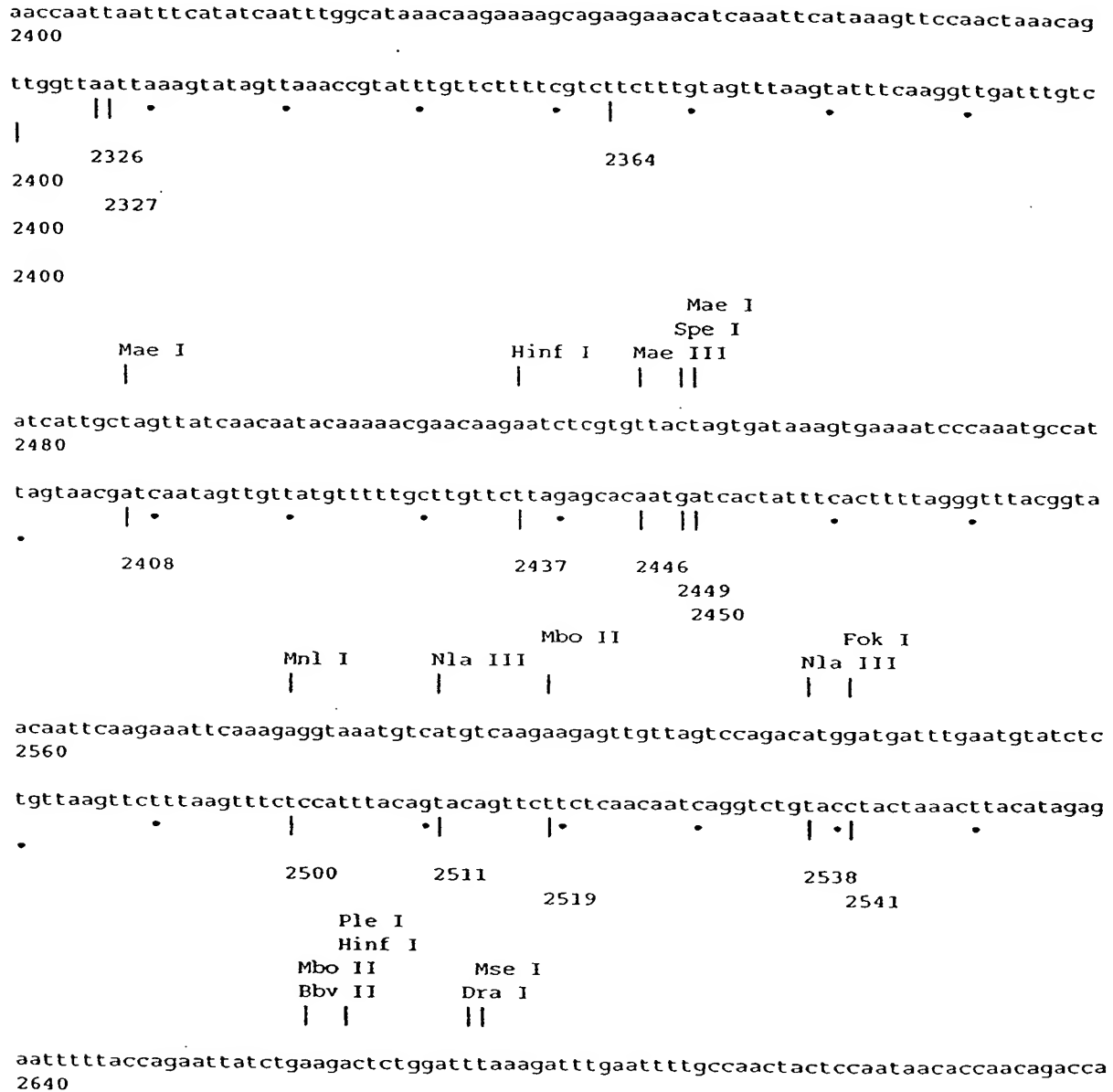


FIG. 1-11

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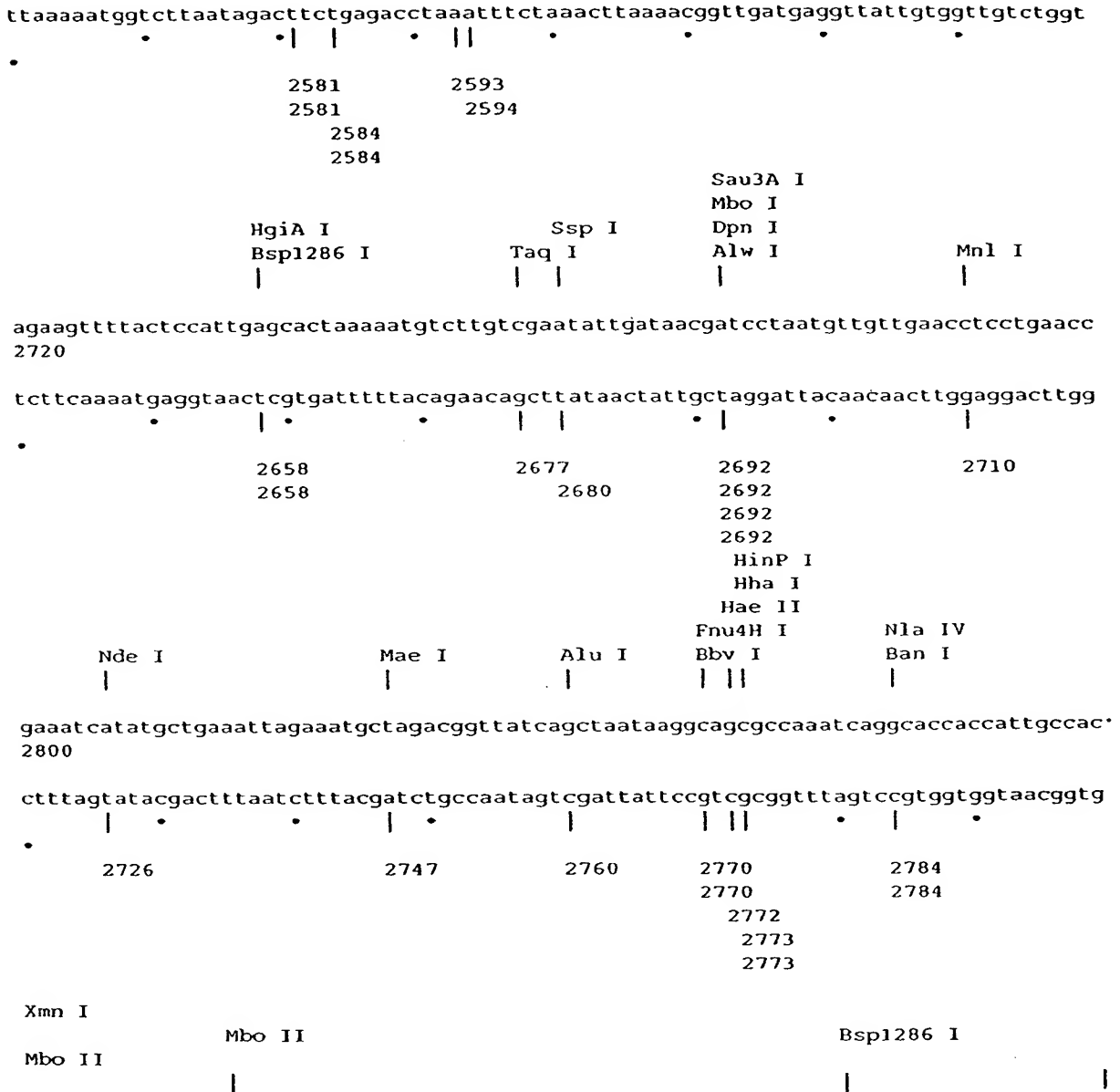


FIG. 1-12

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FIG. 1-13

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FIG. 1-14

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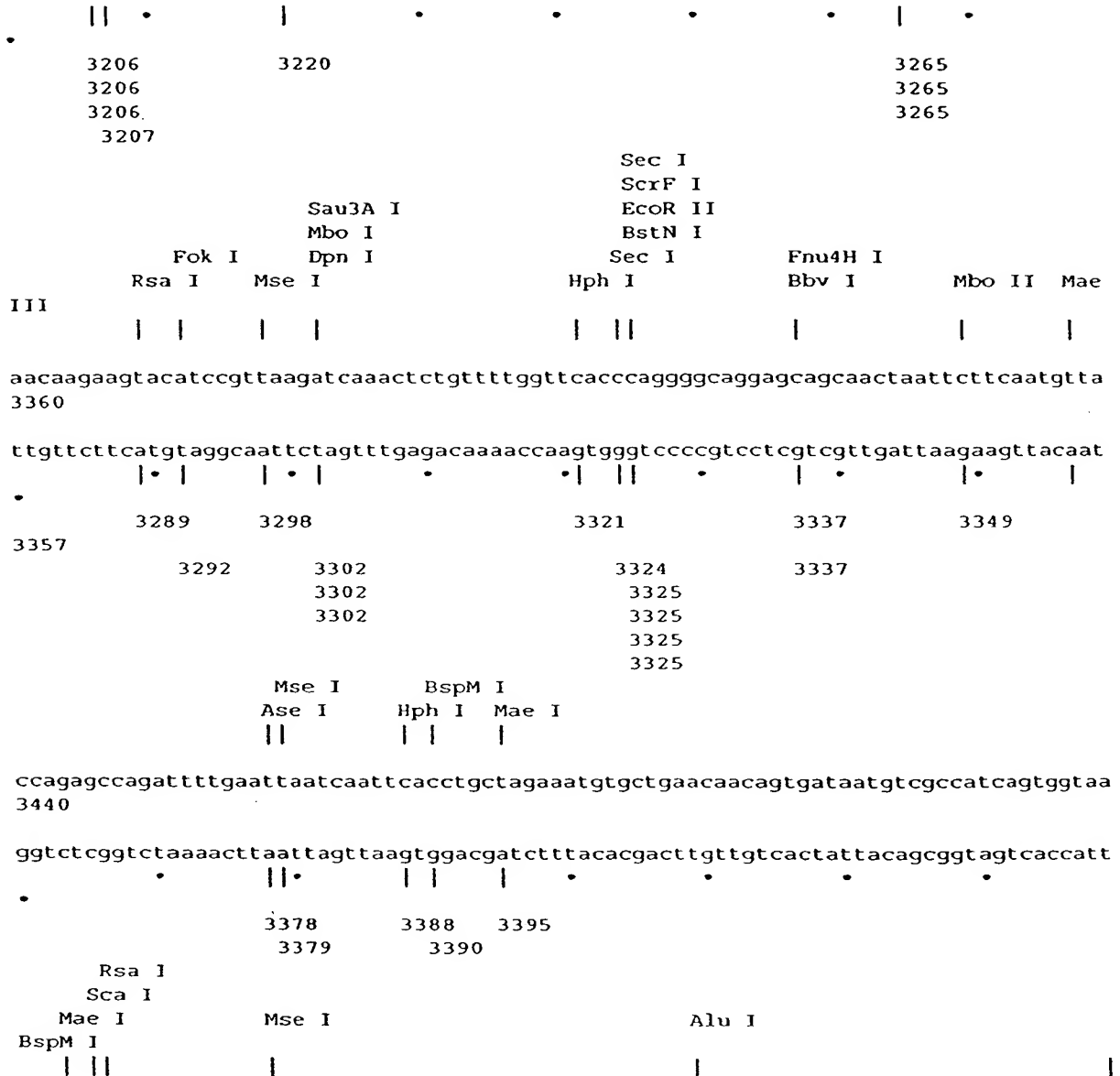


FIG. 1-15

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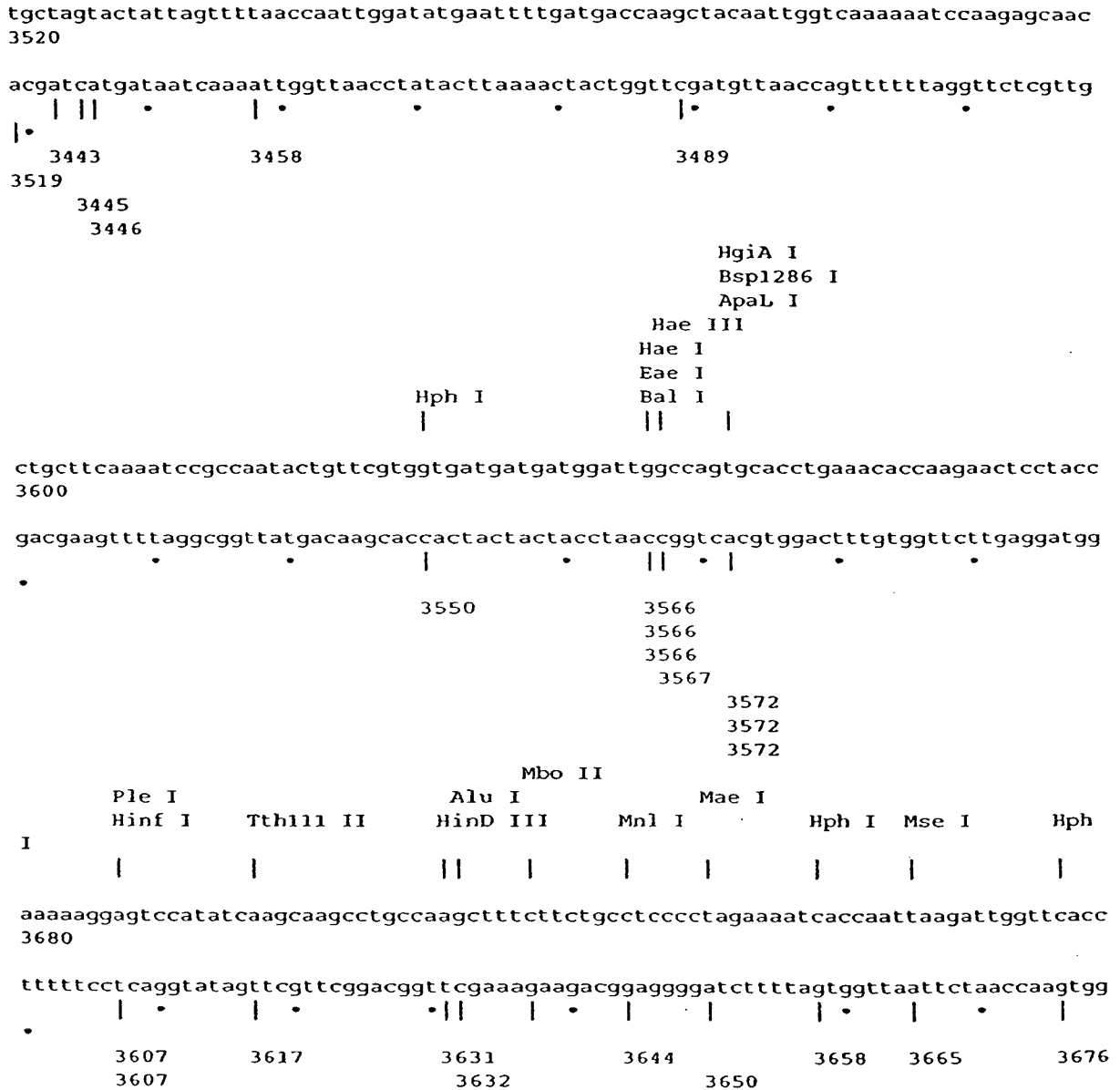


FIG. 1-16



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FIG. 1-17

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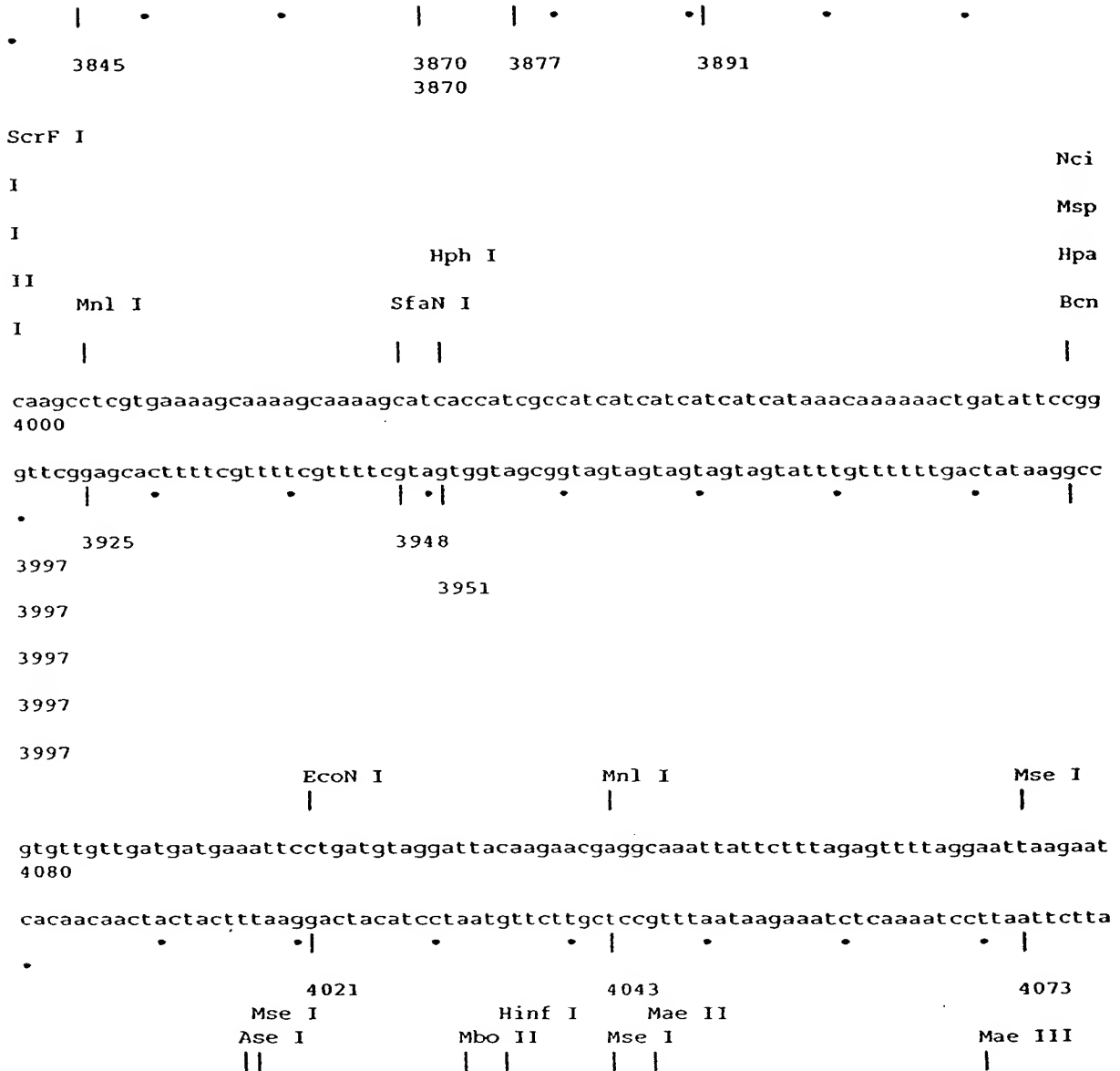


FIG. 1-18

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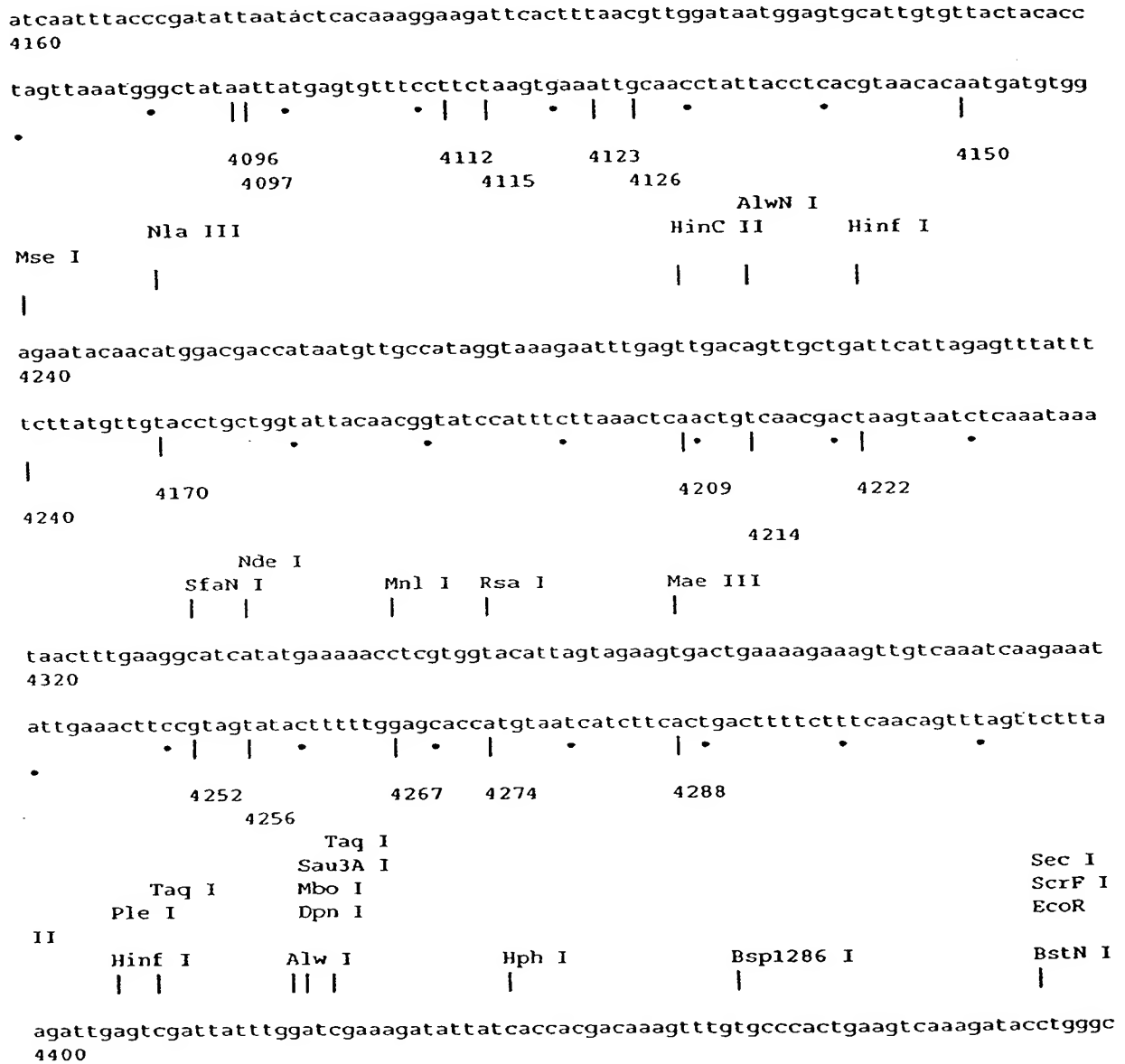


FIG. 1-19

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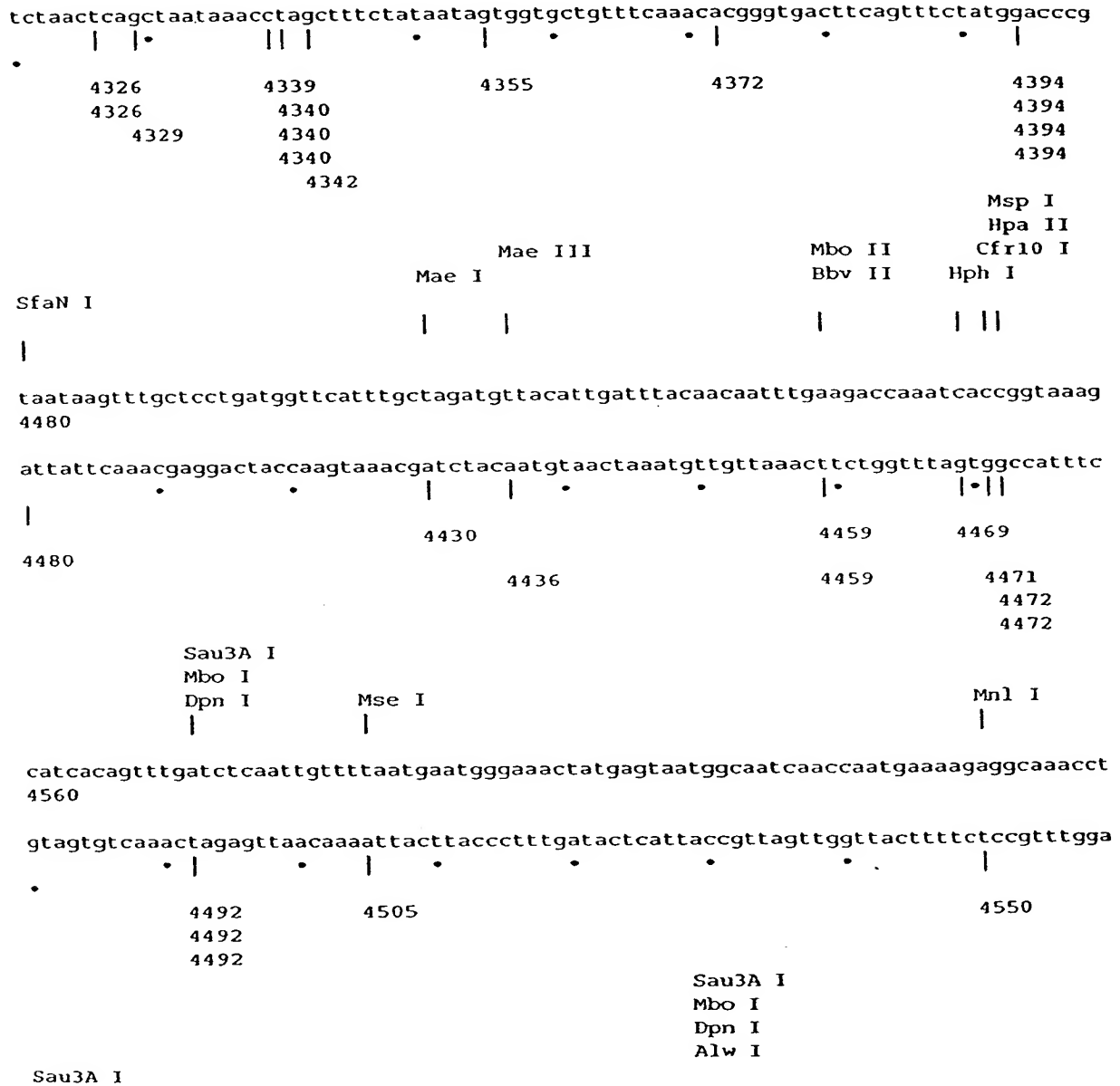


FIG. 1-20





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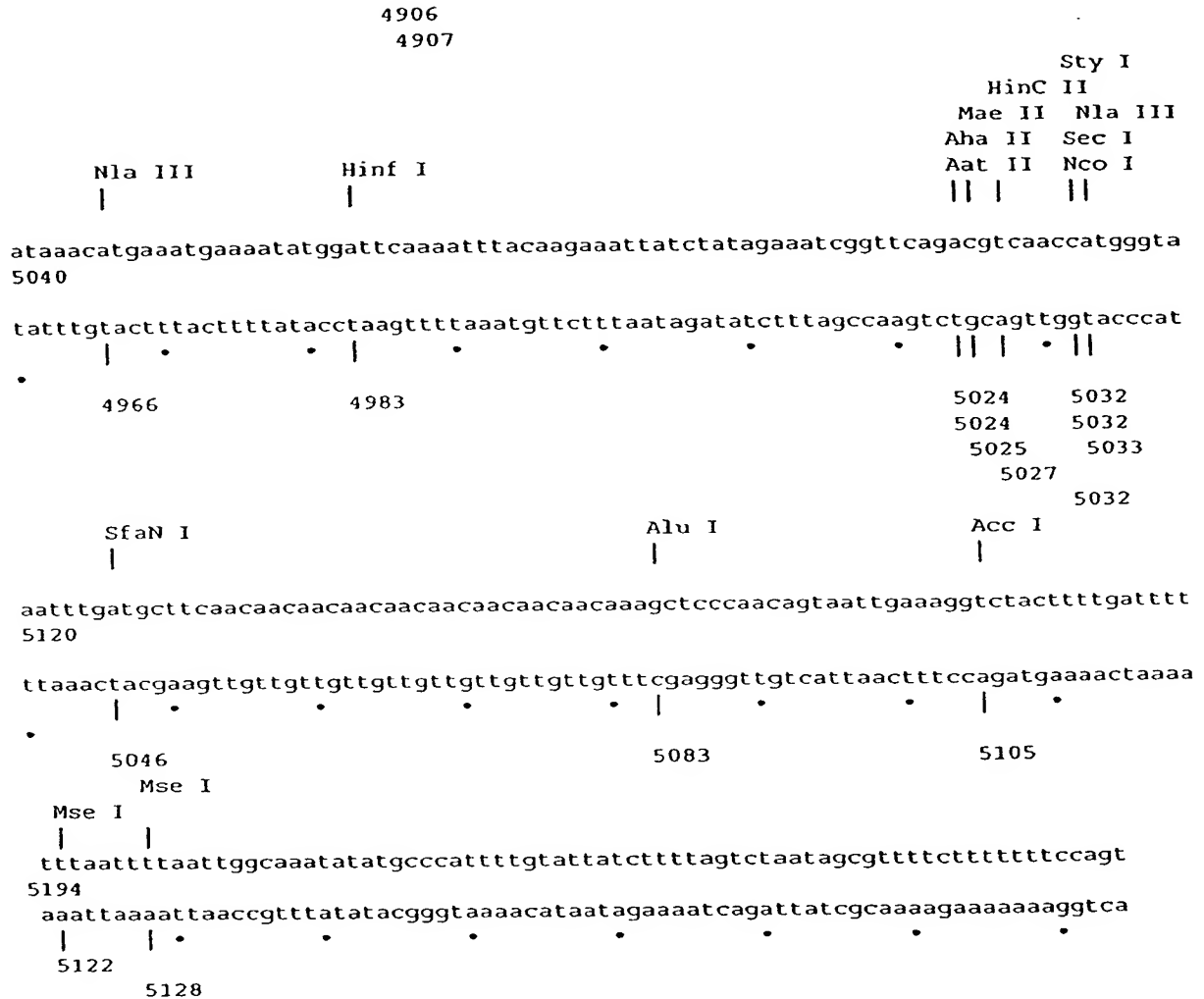


FIG. 1-23

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Primer 1 INT1 5' Primer

5'-CGCTATAGAGCTCAATTTTAAATAAAGAATCAGTAGATCT-3'

Primer 2 INT1 3' Primer

5'-AGCGTATAGGGCCCGAGATAATACAAAATGGGCATATATTTGCCA-3'

Primer 3 Vk - 5'

5'-CCCGTCTAGAGGAGAYATYGTWATGACCCAGTCTCCA-3'

Primer 4 Vk - 3'

5'-CCCGTCGACCCTTTWAATTCCAGCTTWGTSCC-3'

Primer 5 VH - 5'

5'-CGGGTCGACTTCCGGTAGCGGCAAATCCTCTGAAGGCAAAGGTSAGGTSCAGCTG  
SAGSAGTCTGG3'

Primer 6 VH - 3'

5'-TGMRGAGACGGATCCGTRGTYCCTTGGCCCCAG-3'

Primer 7 I - Domain Removal Primer

5'-TTGTTCTTGTTCCCTGTGTTTGCCTTTGCGGCCGATCGCAGGATCCTGGA  
ACTGAAGCATTTGTATCTTCATC-3'

R = A or G

Y = C or T

W = A or T

S = C or G

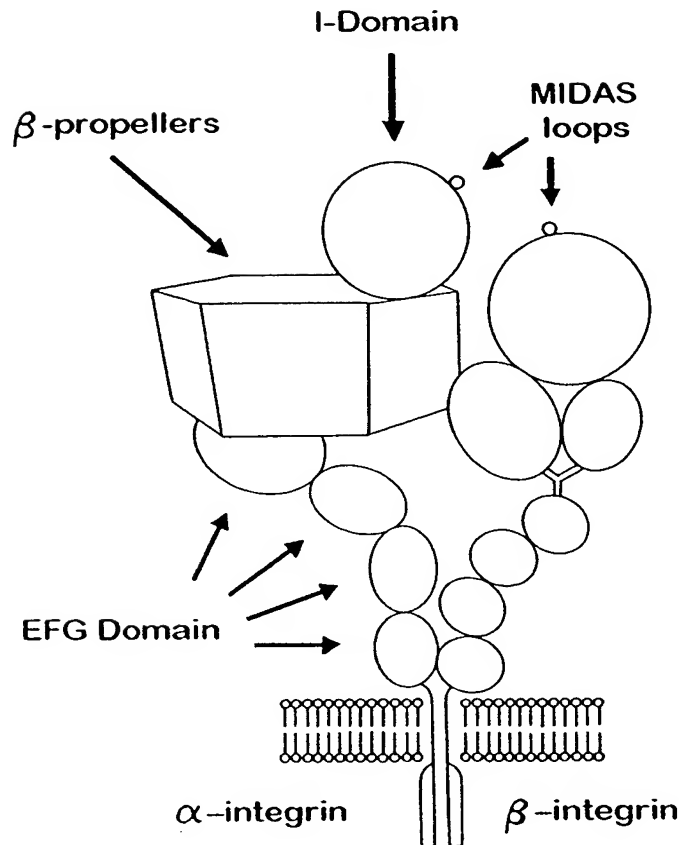
K = G or T

M = A or C

FIG. 2



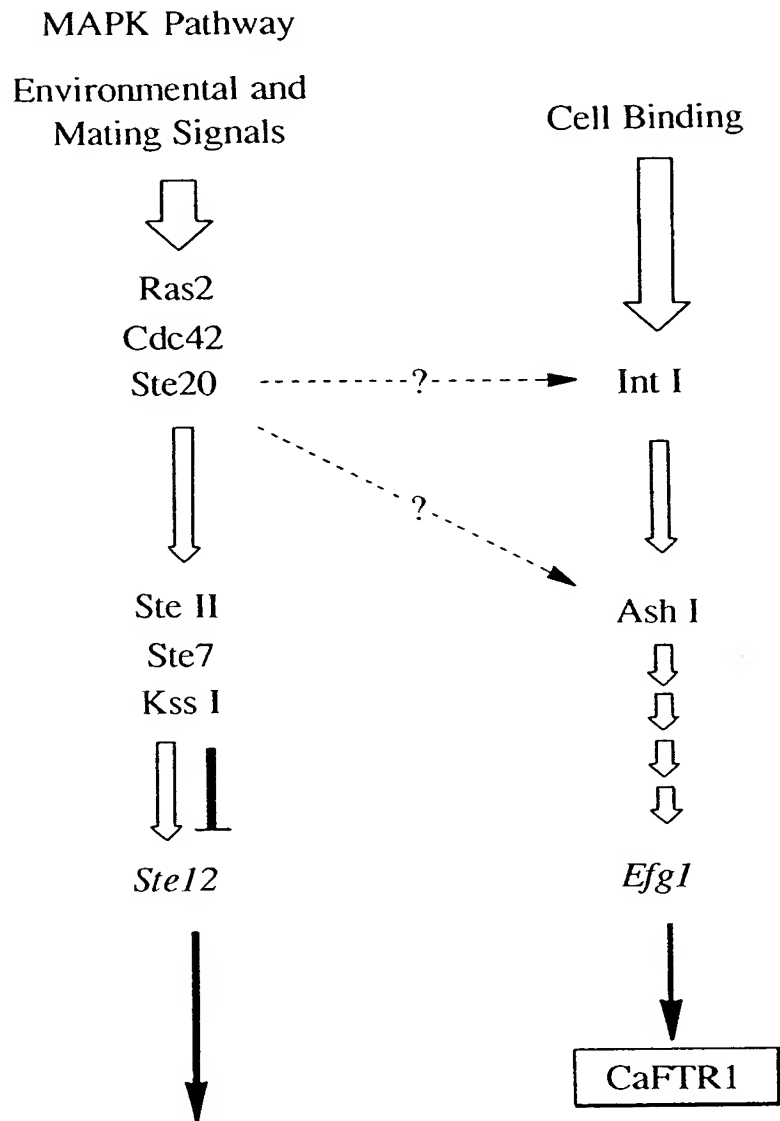
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Human integrin structure (adapted from Humphries 2000).

**FIG. 3**

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The bifurcated path of morphology regulation. Dashed lines indicated suspected interactions. CaFTR1 insertion location shown in raised box. Model compiled from Chandarplaty 1998, Edgington 1999, Saporito-Irwin 1995, Lo 1998, Loeb 1999, Rupp 1999, Banuett 1998, Mosch 1996, Mosch 1999, Lorenz 1997.

**FIG. 4**